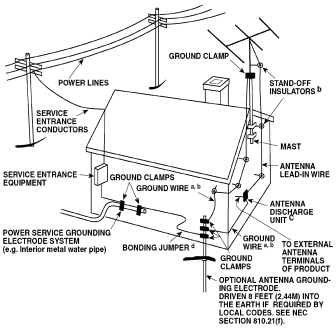
# NAD® M55

## Digital Disc Player

Owner's Manual
Manuel d'Installation
Bedienungsanleitung
Gebruikershandleiding

# IMPORTANT SAFETY INSTRUCTIONS


GROUND CLAMP
POWER LINES
STAND-OFF INSULATORS b
SERVICE ENTRANCE CONDUCTORS
MAST
ANTENNA LEAD-IN WIRE
SERVICE ENTRANCE EQUIPMENT
GROUND CLAMPS
GROUND WIRE a, b
ANTENNA DISCHARGE UNIT c
POWER SERVICE GROUNDING ELECTRODE SYSTEM (e.g. interior metal water pipe)
BONDING JUMPER d
GROUND WIRE a, b
TO EXTERNAL ANTENNA TERMINALS OF PRODUCT
GROUND CLAMPS
OPTIONAL ANTENNA GROUNDING ELECTRODE, DRIVEN 8 FEET (2.44M) INTO THE EARTH IF REQUIRED BY LOCAL CODES. SEE NEC SECTION 810.21(f).

## IMPORTANT SAFETY INSTRUCTIONS

- Save these instructions for later use.
- Follow all warnings and instructions marked on the audio equipment.

**1 Read instructions** - All the safety and operating instructions should be read before the product is operated.

**2 Retain instructions** - The safety and operating instructions should be retained for future reference.

**3 Heed Warnings** - All warnings on the product and in the operating instructions should be adhered to.

**4 Follow Instructions** - All operating and use instructions should be followed.

**5 Cleaning** - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

**6 Attachments** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.

**7 Water and Moisture** - Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

**8 Accessories** - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

**9** A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

**10 Ventilation** - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

**11 Power Sources** - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

- **Main Power Disconnect;** When the power switch is in the Off position, the amplifier is not completely disconnected from the main power. The primary method of isolating the amplifier from the mains supply is to disconnect the mains plug. Ensure that the mains plug remains accessible at all times. When installing the product, ensure that the plug is easily accessible.
- **Non-use Period;** Unplug the AC power cord from the AC outlet if the unit will not be used for a long period of time such as several months or more.
- **CLASS 1 Products;** The M55 shall be connected to a **MAINS** socket outlet with a protective earthing connection.

**12 Power-Cord Protection** - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

**13 Outdoor Antenna Grounding** - If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

**NOTE TO CATV SYSTEM INSTALLER**

- *This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.*

**14 Lightning** - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

**15 Power Lines** - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

**16 Overloading** - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

**17 Object and Liquid Entry** - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

**WARNING**

**18 Transportation** - Transport the M55 in the shipping containers supplied. Do not transport the M55 using one shipping container; to do so may result in damage to either the amplifier or personnel.

# IMPORTANT SAFETY INSTRUCTIONS



**19 Damage Requiring Service** - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

**a)** When the power-supply cord or plug is damaged.

**b)** If liquid has been spilled, or objects have fallen into the product.

**c)** If the product has been exposed to rain or water.

**d)** If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

**e)** If the product has been dropped or damaged in any way.

**f)** when the product exhibits a distinct change in performance-this indicates a need for service.

**20 Replacement Parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

**21 Safety Check** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

**22 Wall or Ceiling Mounting** - The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

## WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.

THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE

**CAUTION**

Changes or modifications to this equipment not expressly approved by NAD Electronics for compliance could void the user's authority to operate this equipment.

**CAUTION REGARDING PLACEMENT**

To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) equal to, or greater than, shown below.

Left and Right Panels : 10 cm

Rear Panel : 10 cm

Top Panel : 50 cm

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

## IMPORTANT INFORMATION FOR UK CUSTOMERS

**DO NOT** cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer. If, nonetheless, the mains plug is cut off, REMOVE THE FUSE and dispose of the PLUG immediately, to avoid possible shock hazard by inadvertent connection to the mains supply. If this product is not provided with a mains plug, or one has to be fitted, then follow the instructions given below:

**IMPORTANT**

**DO NOT** make any connection to the larger terminal which is marked with the letter 'E' or by the safety earth symbol or coloured GREEN or GREEN AND YELLOW.

The wires in the mains lead on this product are coloured in accordance with the following code:

BLUE - NEUTRAL

BROWN - LIVE

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The BLUE wire must be connected to the terminal marked with the letter 'N' or coloured BLACK.

The BROWN wire must be connected to the terminal marked with the letter 'L' or coloured RED

When replacing the fuse, only a correctly rated and approved type should be used, and be sure to re-fit the fuse cover.

**IF IN DOUBT CONSULT A COMPETENT ELECTRICIAN**

This product is manufactured to comply with the radio interference requirements of EEC DIRECTIVE 89/336/EEC, 93/68/EEC, and 73/23/EEC.

CE

## NOTES ON ENVIRONMENTAL PROTECTION

At the end of its useful life, this product must not be disposed of with regular household waste but must be returned to a collection point for the recycling of electrical and electronic equipment. The symbol on the product, user's manual and packaging, point this out. The materials can be reused in accordance with their markings. Through re-use, recycling of raw materials, or other forms of recycling of old products, you are making an important contribution to the protection of our environment. Your local administrative office can advise you of the responsible waste disposal point.

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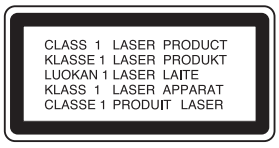


**WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE**

**CAUTION**

THIS DVD PLAYER EMPLOYS A LASER SYSTEM. TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS OWNER'S MANUAL CAREFULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LOCATION.

USE OF CONTROLS, ADJUSTMENTS TO MODIFY PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

TO PREVENT DIRECT EXPOSURE TO LASER BEAM, DO NOT TRY TO OPEN THE ENCLOSURE. VISIBLE LASER RADIATION EXISTS WHEN THE ENCLOSURE IS OPENED. DO NOT STARE INTO BEAM.

THE APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

**WARNING: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.**

**NOTE**

*M55 is not an auto voltage DVD player. Connect only to the prescribed AC outlet, i.e., 120V 60Hz or 230V 50Hz.*

**RECORD YOUR MODEL NUMBER (NOW, WHILE YOU CAN SEE IT)** The model and serial number of your new DVD player are located on the back of the DVD player cabinet. For your future convenience, we suggest that you record these numbers here:

Model No. :_____Serial No. :_____

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### ABOUT THIS OWNER'S MANUAL

This owner's manual explains the basic instructions of this M55. Some DVD/DVD-A/SACD/VCD/CD media have functions that may not be explained in this owner's manual. Therefore, some instructions may differ from the M55 owner's manual, and there may be extra instructions. In this case, follow the instructions displayed on the media package or displayed on the OSD during operation.

### NOTES

- *Refer to the owner's manual of your audio equipment as well. When you connect the M55 to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections. The output sound of the M55 has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound. Turn off the receiver before you connect or disconnect the M55's power cord. If you leave the receiver power on, the speakers may be damaged.*
- *When playing high bit rate recordings, like DVD-Audio or SACD, some of the video menus may become unresponsive. Under these conditions all of the M55's resources are being used to decode the audio data.*
- *For gapless playback of musical works that include individual tracks but no silent gaps between songs or movements, the disc should be played from the beginning without interruption. Skipping tracks or using the Program Mode will introduce gaps.*

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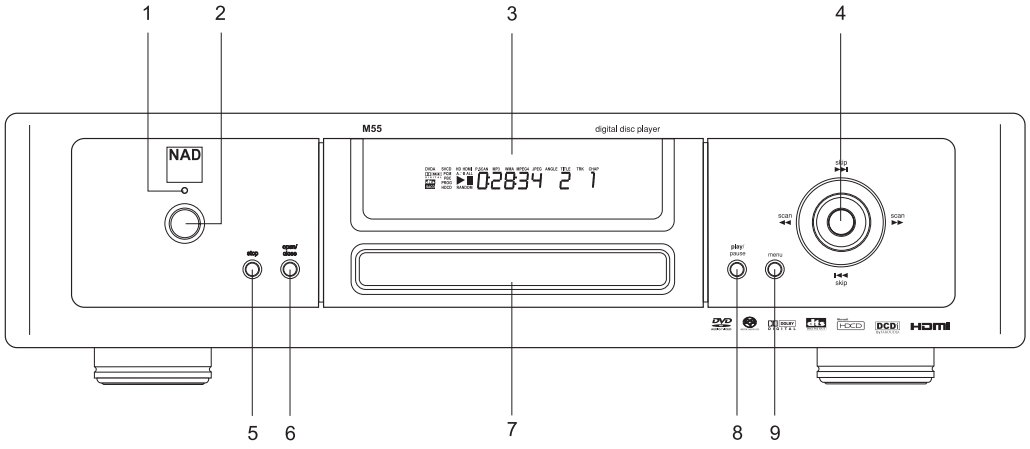
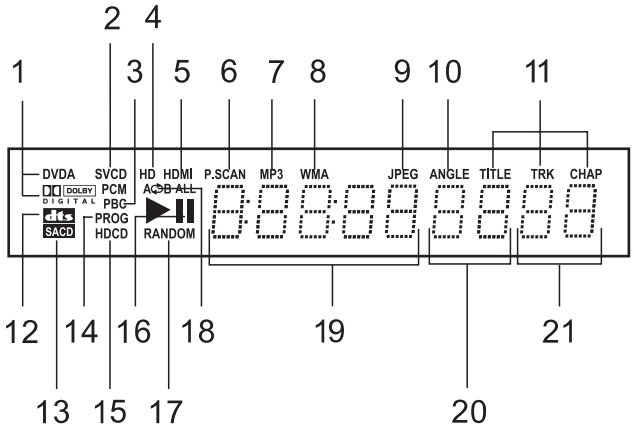
# Identification of Controls

## FRONT PANEL




**1-2** Power button and On/Standby indicator
**3** Display window
**4** Select/Enter/Navigation buttons
**5** **stop** button
**6** **open/close** button
**7** DVD/CD tray
**8** **play/pause** button
**9** **menu** button

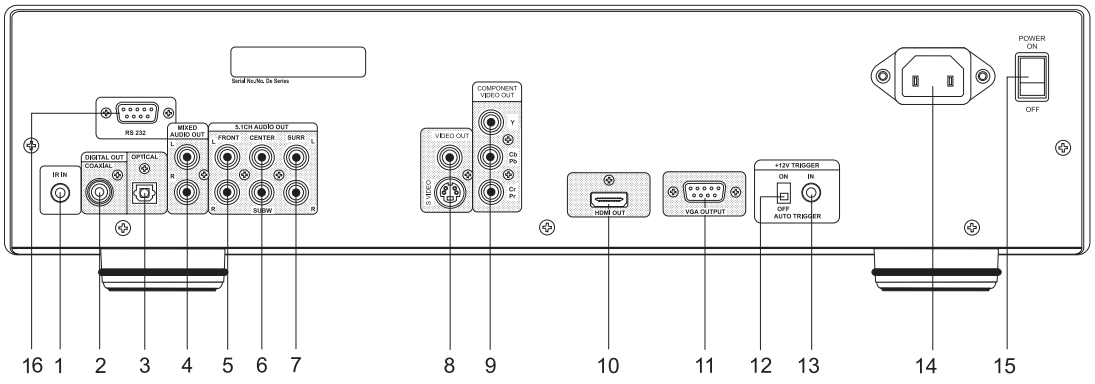
## DISPLAY WINDOW




**1** **DVD-A**udio and **Dolby Digital** multi-channel output indicator
**2** **CD**, **VCD** and **SVCD** indicator
**3** **PBC** indicator for VCD and SVCD
**4** **HD** (Hi Definition) indicator
**5** **HDMI** indicator
**6** **P. SCAN** (Progressive Scan) indicator
**7** **MP3** indicator
**8** **WMA** indicator
**9** **JPEG** Indicator
**10** **ANGLE** Indicator
**11** **TITLE**, **TRK**, and **CHAP** indicators
**12** **DTS** indicator
**13** **SACD** (2-channel or multi-channel) indicator
**14** **PROG**ram indicator
**15** **HDCD** indicator
**16** Play and Pause indicators
**17** **RANDOM** play indicator
**17** Chapter number display
**18** Repeat, repeat **ALL**, repeat **A-B** indicator
**19** Total playing time display
**20** Title number display
**21** Track number display

## REAR PANEL (NORTH AMERICAN VERSION)





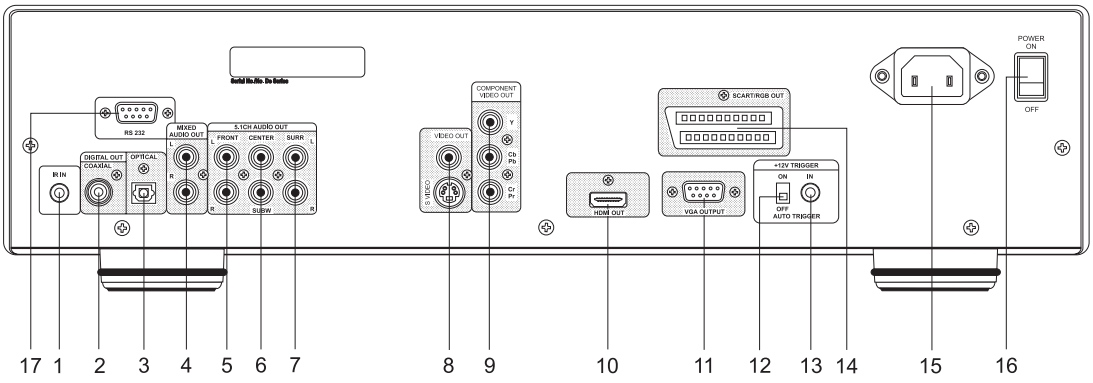

**1** **IR IN** Jack
**2** **DIGITAL OUT COAXIAL** Jack
**3** **DIGITAL OUT OPTICAL** jack
**4** **MIXED AUDIO OUT** (L & R) Jacks
**5** **5.1 CH AUDIO OUT FRONT** L & R Jacks
**6** **5.1 CH AUDIO OUT CENTER** and **SUBW** (Subwoofer) Jacks
**7** **5.1 CH AUDIO OUT SURR** (Surround Sound) L & R Jacks
**8** **S-VIDEO** & Composite **VIDEO OUT** Jacks (480i/576i video resolutions)
**9** **COMPONENT VIDEO OUT** Jacks (480i/576i or 480p/576p, video resolutions)
**10** **HDMI OUT** Jack (480p or 576p video resolutions)
**11** **VGA OUT** Jack (480p/576p, 720p, and 1080i video resolutions)
**12** **AUTO TRIGGER ON/OFF** Switch
**13** **+12V TRIGGER IN** jack
**14** Power cord socket
**15** **POWER ON/OFF**
**16** **RS 232** In/Out Jack

**NOTES**

*Connect the optical digital cable (not supplied) firmly so that the configurations of both the cable and the connector match.*
*The **+12V TRIGGER IN** jack is a 3.5mm monotype miniature phone jack with the centre pin the 12V signal-sense. We recommend that you use a good quality cable with shield when attaching the 3.5mm monotype plug so as to prevent false triggering of the amplifier due to electro-magnetic interference from nearby electronic equipment. The **+12V-IN TRIGGER** allows you to have an external 12V signal to turn ON the NAD M55 from standby. This 12V signal must be a continuous 12V signal in order to keep the M55 in the ON state. Once you remove the 12V signal the M55 will return to standby. Check the specifications of the trigger input terminal the other components to ensure these are compatible with the M55. All 12V-TRIGGER inputs and outputs on other NAD components with a 12V-TRIGGER feature are fully compatible with the NAD M55's 12V-TRIGGER IN. Before making any connections to any 12V-TRIGGER IN make sure all components are disconnected from the AC mains. If in doubt over the connections, installation and/or operation of the 12V-TRIGGER IN connection, consult your NAD dealer or sales representative. Failure to observe the above may result in damage to the NAD M55 and/or any ancillary components attached to it.*
*The **IR IN** jack is connected to the output of an IR (infrared) repeater (Xantech or similar), or the IR output of another component to allow control of the M55 from a remote location. Ask your dealer or custom installer for further details*

# Identification of Controls

## REAR PANEL (EUROPEAN VERSION)




**1** **IR IN** Jack
**2** **DIGITAL OUT COAXIAL** Jack
**3** **DIGITAL OUT OPTICAL** jack
**4** **MIXED AUDIO OUT** (L & R) Jacks
**5** **5.1 CH AUDIO OUT FRONT** L & R Jacks
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**11** **VGA OUT** Jack (480p/576p, 720p, and 1080i video resolutions)
**12** **AUTO TRIGGER ON/OFF** Switch
**13** **+12V TRIGGER IN** jack
**14** **SCART/RGB OUT** Jack (480i and 576i, video resolutions)
**15** Power cord socket
**16** P**OWER ON/OFF**
**17** **RS 232** In/Out Jack

**NOTES**

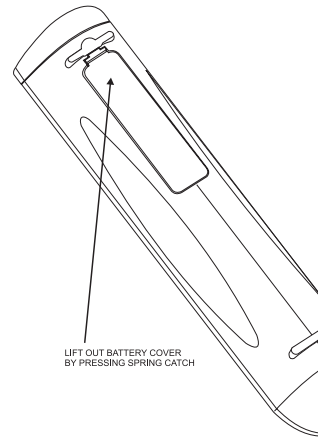
*Connect the optical digital cable (not supplied) firmly so that the configurations of both the cable and the connector match.*

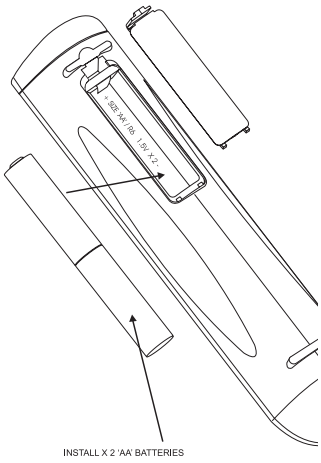
*The **+12V TRIGGER IN** jack is a 3.5mm monotype miniature phone jack with the centre pin the 12V signal-sense. We recommend that you use a good quality cable with shield when attaching the 3.5mm monotype plug so as to prevent false triggering of the amplifier due to electro-magnetic interference from nearby electronic equipment. The **+12V-IN TRIGGER** allows you to have an external 12V signal to turn ON the NAD M55 from standby. This 12V signal must be a continuous 12V signal in order to keep the M55 in the ON state. Once you remove the 12V signal the M55 will return to standby. Check the specifications of the trigger input terminal the other components to ensure these are compatible with the M55. All 12V-TRIGGER inputs and outputs on other NAD components with a 12V-TRIGGER feature are fully compatible with the NAD M55's 12V-TRIGGER IN. Before making any connections to any 12V-TRIGGER IN make sure all components are disconnected from the AC mains. If in doubt over the connections, installation and/or operation of the 12V-TRIGGER IN connection, consult your NAD dealer or sales representative. Failure to observe the above may result in damage to the NAD M55 and/or any ancillary components attached to it.*

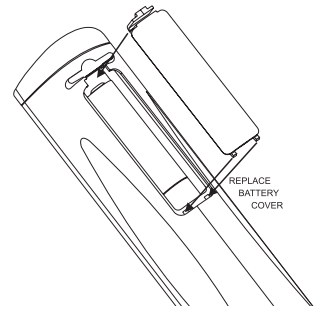
*The **IR IN** jack is connected to the output of an IR (infrared) repeater (Xantech or similar), or the IR output of another component to allow control of the M55 from a remote location. Ask your dealer or custom installer for further details*

Insert the batteries into the remote control so you can use it to operate the M55.

**1** Open the battery cover
**2** Insert two batteries (AA size)
**3** Make sure to match the + and - on the batteries to the marks inside the battery compartment.
**4** Close the cover



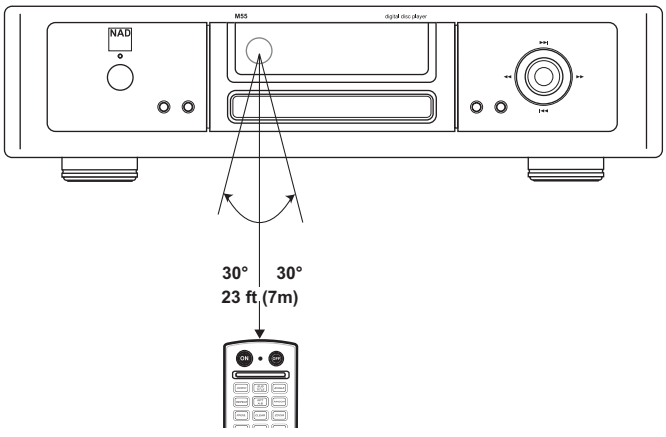

### NOTES ON BATTERIES

*Improper use of batteries may cause battery leakage and corrosion.*

- *To operate the remote control correctly, follow the instructions.*
- *Do not insert the batteries into the remote control in the wrong direction.*
- *Do not charge, heat, open or short-circuit the batteries.*
- *Do not throw the batteries into fire.*
- *Do not leave dead or exhausted batteries in the remote control.*
- *Do not use different types of batteries together, or mix old and new batteries.*
- *If you do not use the remote control for a long period of time, remove the batteries to avoid possible damage from battery corrosion.*
- *If the remote control does not function correctly or if the operating range becomes reduced, replace all batteries with new ones.*
- *If battery leakage occurs, wipe the battery liquid from the battery compartment, then insert new batteries.*
- *The batteries should last about one year with normal use.*

### OPERATION OF THE M55 WITH THE REMOTE CONTROL

This section shows you how to use the remote control. Point the remote control at the remote control sensor and press the buttons.



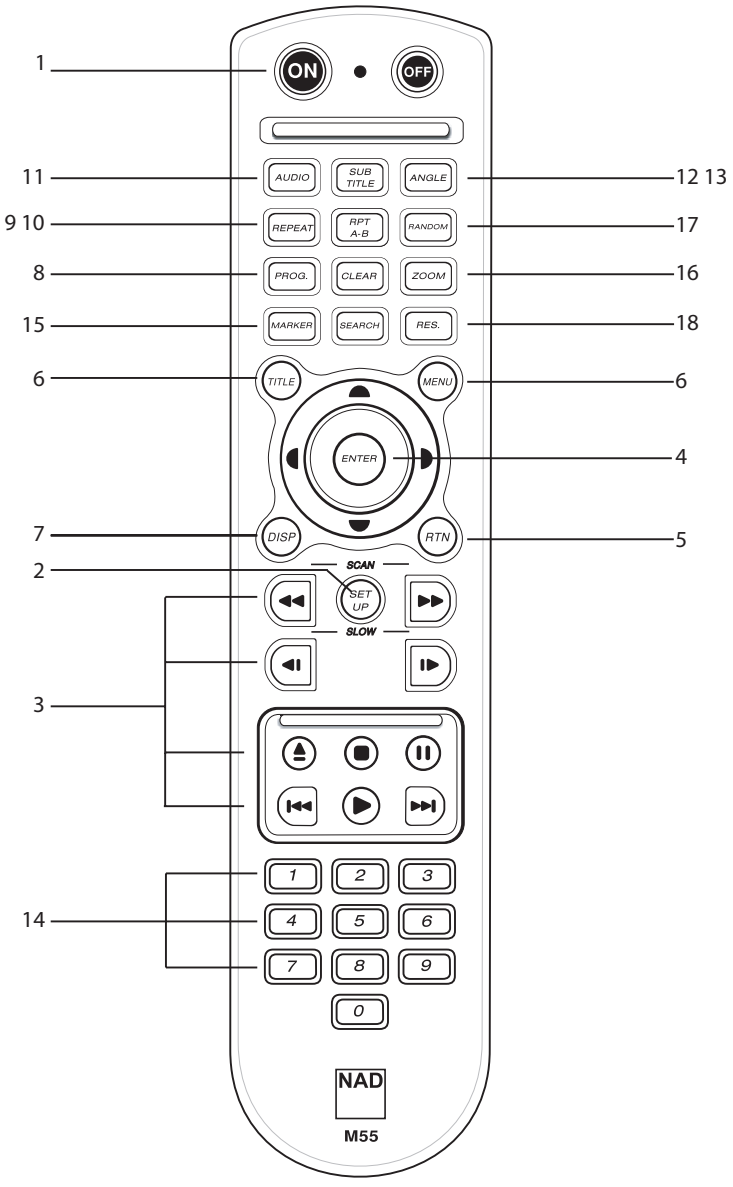

Distance: About 23 ft (7 m) from the front of the remote sensor
Angle: About 30 degrees in each direction of the front of the remote sensor

### NOTES ON THE REMOTE CONTROL

- *Do not expose the remote sensor of the M55 to a strong light source such as direct sunlight or illumination. If you do so, you may not be able to operate the M55 with the remote control.*
- *Point the remote control at the remote sensor on the M55.*
- *Do not drop or give the remote control a shock.*
- *Do not leave the remote control near an extremely hot or humid place.*
- *Do not spill water or put anything wet on the remote control.*
- *Do not disassemble the remote control.*

# Identification of Controls

## REMOTE CONTROL




**1** POWER ON, POWER OFF
**2** SETUP
**3** Transport control keys OPEN/CLOSE, STOP, PAUSE, STEP, PLAY, SKIP, SCAN, SLOW
**4** ENTER and navigation buttons
**5** RETURN
**6** TITLE, MENU
**7** DISPLAY
**8** PROGRAM, CLEAR
**9** REPEAT
**10** REPEAT A-B
**11** AUDIO
**12** SUBTITLE
**13** ANGLE
**14** Numerical buttons
**15** MARKER, SEARCH
**16** ZOOM
**17** RANDOM
**18** RESOLUTION

**1** The power buttons labelled **ON** and **OFF** will toggle the M55 from standby to the on-position, only if the **POWER** rocker switch on the left rear of the M55 is in the **ON** position.

**2** The **SETUP** button is used in conjunction with the television monitor's On Screen Display (OSD) connected to the M55, (see the section on 'Initial Set-up Settings') to edit the DVD's OSD.

**3** There are ten transport control buttons that allows one to directly control the DVD/VCD/CD media. These buttons handle the basic operations of; Open/Close ⏏ of the media tray, Stop ⏹, Pause ⏸, Skip forward and back ⏮/⏭, Play ▶, Scan tracks ◀◀/▶▶, and Slow scan tracks ◀❙/❙▶.

**4** The navigation buttons ◖/◗/◓/◒ in conjunction with the **ENTER** button allows one to navigate the OSD, title and menu screens.

**5** The **RTN** button is used for returning to Menus of various VCD and SVCD disc media with PBC (Play Back Control). Please note that PBC must be set to ON in the Others OSD Setup Menu in order for the RTN option to function.

**6** The **TITLE** and **MENU** buttons are used to display the Title and Menus of the DVD-Video, DVD-Audio, and MP3/WMA/JPEG CD media when available. The **MENU** button will allow you to select between CD and SACD layers of SACD media as well.

**7** The **DISP** (Display) button will show multiple navigation OSD for advanced DVD-Video, VCD, and CD/DVD JPEG media options when the M55 is in play or pause mode. The Display function is not available for DVD-Audio

**8** The **PROGRAM** and **CLEAR** buttons are used for programming the files on CD/DVDs with MP3/WMA/JPEG files as well as CD/SACD media.

**9** The **REPEAT** button when pressed once, repeats MP3/WMA/JPEG/CD/SACD track or a DVD-Video and DVD-Audio chapter. If the button is pressed twice the entire MP3/WMA/JPEG/CD/SACD folder is repeated or the DVD-Audio/Video Title is repeated.

**10** The **REPEAT A-B** button is used to repeat a specific start to stop section of an audio CD or DVD/VCD. During play mode of the media, press the button once to store the start point of the M55 in memory. When pressed a second time the stop point of the media is stored. The M55 will play the selected section(s) until **REPEAT A-B** button is pressed a third time.

**11** The **AUDIO** button will allow one to switch the audio language of the DVD media only if the DVD media supports the **AUDIO** button feature.

**12** The **SUBTITLE** button will allow one to switch on or off the various types of subtitles for the DVD media being viewed, only if the DVD media supports the **SUBTITLE** button feature.

**13** The **ANGLE** button will allow one to select various viewing angles of each movie scene only if the DVD media supports this feature.

**14** The number buttons are used for inputting numeric values when navigating the menu, title, and display OSDs or when directly selecting media tracks.

**15** The **MARKER** and **SEARCH** buttons allows one to set up to 9 bookmarks on a DVD and VCD for quick reference. After each marker is stored one then presses the SEARCH then navigation buttons to play the bookmark.

**16** The **ZOOM** button allows one to expand the viewed image from 1 1/2, 2, to 3 times. To clear the zoom, press the **ZOOM** button repeatedly until the Zoom off OSD is displayed.

**17** The **RANDOM** button allows one to randomly play audio MP3/WMA/JPEG/CD/SACD media. In conjunction with the **REPEAT** buttons the media would randomly play all tracks. This feature is not available on most DVD-Video and DVD-Audio discs.

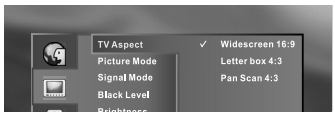
**18** TThe **RESOLUTION** button allows one to select the HDCP video resolutions from the Component, HDMI, and VGA output.

**NOTE:**

*Not all resolutions are available on all outputs.* *See chart on page 37*

# OPERATION OF THE M55






## INTRODUCTION

When you want to play back DVD-Video discs and DVD-Audio or audio CDs, turn on your A/V audio system and the TV and then select the video input source connected to the DVD player.

Set the playback picture size according to the aspect ratio of the connected TV in the setup OSD menus.

**Switch ON the POWER rocker switch, then the front panel Standby button.**. The M55-power indicator becomes blue.

**Press OPEN/CLOSE**. The disc tray opens.

- You can open the disc tray by pressing this button even if the DVD player is in standby mode. The power indicator will turn from amber to blue.

**Place a disc on the disc tray with the playback side down.**

- There are two different disc sizes. Place the disc in the correct guide on the disc tray. If the disc is out of the guide, it may damage the disc and cause the M55 to malfunction.
  Press **PLAY**. The disc tray is automatically closed and playback begins.
- If the disc is placed in upside down (and it is a single sided disc), NO DISC will appear on the M55's display and 'NO DISC' appears on the TV screen.
- If you insert an audio CD, the total tracks and time will appear.
- After playing back all of the chapters in the title, M55 automatically stops and returns to the menu screen.

**Press the navigation keys then and press ENTER, or press the numeric button(s), to select the desired item.** Play of the selected item now begins.

- For further information, also refer to the jacket or case of the disc you are playing.

## AFTER OPERATION

When the unit is not in use, remove the disc and press the **OFF** button on the remote to switch the M55 to standby. If the M55 is left unattended for any length of time such as during a vacation, then switch off the M55 by depressing the black rocker switch marked **POWER ON/OFF** found on the rear of the M55.

## NOTES

- *Do not move the DVD player during playback. Doing so may damage the disc and the M55.*
- *Use the **OPEN/CLOSE** button on the M55 or ⏏ on the remote control to open and close the disc tray.*
- *Do not push or pull the disc tray while it is moving. Doing so may cause the M55 to malfunction.*
- *Do not push up the disc tray or put any objects other than discs on the disc tray. Doing so may cause the M55 to malfunction.*
- *Keep your fingers well clear of the disc tray as it is closing. Be especially careful with children's fingers around the closing disc tray, as there is a risk of personal injury.*
- *Depending on the DVD disc, some operations may be different or restricted. Refer to the jacket or case of the disc you are playing.*

### AUTOMATIC POWER OFF FUNCTION

The M55 can be powered to standby by the **12V-TRIGGER IN**. The M55 will also power to standby when the player is in Stop mode after 5 minutes.

**NOTE**

- *The M55 will remain in the ON state indefinitely when the media is placed in pause mode. Do not leave the M55 in the pause mode due to the fact, in pause mode and your monitor left on, an image may burn into the monitor's screen.*

### STOPPING PLAY

Press STOP during playback either on the remote or the M55. Pressing the Open/Close button either on the remote or M55 will also stop playback.

### RESUME PLAY

When play is stopped, the unit records the point where STOP was pressed and the TV OSD will display the Stop Resume Icon.

Press the **PLAY** button either on the remote or the M55 and play will resume from this point.

**NOTES**

- *The resume function will be cleared when the **STOP** is pressed twice.*
- *The M55 will remember the last position of the media when the power is turned off and then on.*
- *The M55 will remember its last position if opening the disc tray during stop resume or during playback.*
- *The resume function may not be available on some DVD-Video, DVD-Audio, and VCD discs.*
- *The resume function is not available on DVD/CDs with MP3/WMA/JPEG media.*

### STILL PICTURE (PAUSE)

Press PAUSE during playback. For a DVD, the M55 will be placed in the still picture mode. For a CD the player will be placed in the pause mode.

### FRAME ADVANCE (DVD ONLY)

Press PAUSE during still playback (each time you press PAUSE, the picture advances one frame). To resume normal playback, press PLAY

### SKIPPING CHAPTERS AND TRACKS

**SKIPPING FORWARD**

Press SKIP (or SKIP FORWARD icon) during playback

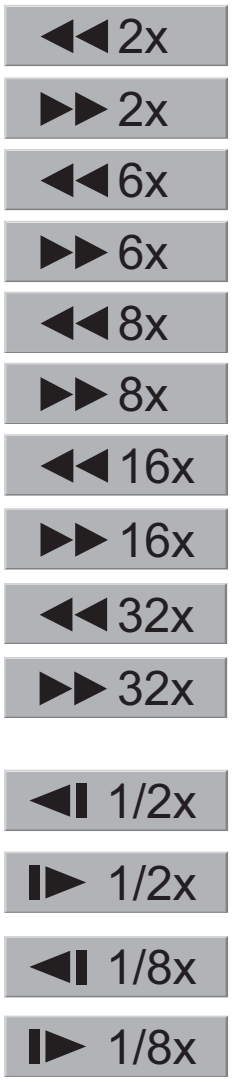
A chapter (DVD) or a track (CD) is skipped each time the button is pressed.

**SKIPPING BACK**

Press SKIP (or SKIP BACK icon) during playback. When the button is pressed once midway through a chapter/track, the player returns to the start of that chapter/track. When it is pressed again, a chapter/track is skipped each time the button is pressed.

## SPECIAL PLAYBACK






### SCANNING AT HIGH SPEED (DVD-VIDEO, DVD-AUDIO, CD, MP3/WMA)

You can play back discs at various speeds. To scan at fast-forward ▶▶ or fast-reverse ◀◀ during playback, press the Scan buttons, during playback.

The speed of fast forward ▶▶ and fast reverse ◀◀ is relatively slow at first. When the button is pressed again, the speed becomes faster. Each time the fast forward or reverse button is pressed, the speed increases. The speed will be retained after the button is released, but normal playback will resume once the next track or chapter is reached. To return to normal playback during scanning, press **PLAY**.

**NOTES**

- *Some media will not allow normal playback until the **PLAY** button is pressed.*
- *The some media will allow sound during the high-speed reverse and forward playback*
- *Not all media support the maximum speeds for scanning*

### PLAYING IN SLOW-MOTION (DVD-VIDEO, VCD)

Press the **SLOW** buttons during playback. The playback speed becomes slower than the normal speed.

The speed of slow motion varies with every press of the slow-motion button. When the button is pressed again, the speed becomes slower. Each time the button is pressed, the speed decreases, from ½ to ¼ to 1/8th speed. To return to normal playback, either cycle through to the normal play mode, or press **PLAY**.

**NOTES**

- *The sound is muted during slow-motion playback.*
- *Some media will not allow normal playback until the **PLAY** button is pressed.*
- *The sound is muted during slow-motion playback.*
- *DVD-Audio and MP3/WMA/JPEG and CD/SACD-Audio media will not support slow-motion playback.*
- *Not all media support maximum slowness speeds.*

## DISPLAY/TITLES/MENUS/SUBTITLES

Examples of GUI (Graphical User Interface) MENU Icons
(The screens may differ depending on the disc contents.)

### OPERATION USING MENU ICONS

Press DISPLAY during playback [TV screen] DVD GUI
To show the current title number, press the DISPLAY button, and navigate to the desired title number or type in the numeric number directly and press ENTER. To show the current chapter number and to jump to the desired chapter number, press DISPLAY and navigate to the Chapter menu and enter the desired numeric value. To show the current audio (Stereo, Left, Right) and to select to the desired audio channel, toggle through the audio selections by pressing the AUDIO button repeatedly.

1. **Press AUDIO during playback. Each time this button is pressed, the TV screen displays changes.**
2. **Press AUDIO repeatedly until the desired sound is selected.**

Some movie discs may contain two or more titles. If the disc has a title menu recorded on it, the TITLE button can be used to select the movie title. (The details of operation differ depending on the disc used.)

### NOTE

*Selecting a title may not be possible on certain DVD discs.*

1. **Press TITLE.** A list of the titles on the disc is displayed. Press TITLE again to resume play from the scene when TITLE was first pressed.
2. **Press ENTER, PLAY, or press the numeric button(s), to select desired title.** The selected title now starts playing.

Some DVDs have unique menu structures called DVD menus. For example, DVDs programmed with complex contents provide guide menus, and those recorded with various languages provide menus for audio and subtitle language. Although the DVD menu's contents and operation differ from disc to disc, the following explains the basic operation when this feature is used.

1. **Press MENU during play.** The DVD menu available on the disc is now displayed. Pressing MENU again resumes play from the scene when MENU was first pressed.
   - Resume play may not be possible on certain discs.
2. **Press ENTER, or press the numeric button(s), to select desired item.** The selected item is now executed.

It is possible to change the subtitle language to a different language from the one selected at the initial settings. This operation works only with discs on which multiple subtitle languages are recorded.

1. **Press SUBTITLE during playback. When no subtitles are recorded, 'OFF' will be displayed instead of the language number.**
2. **Press SUBTITLE repeatedly until the desired language is selected. Number of the subtitle language being played back is shown.** To eliminate the On Screen Subtitles, press SUBTITLE repeatedly to select 'OFF' at step 2.

### NOTES

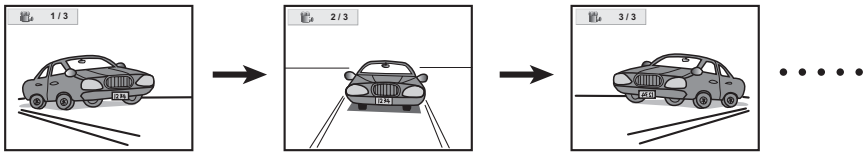
- *In some cases, the subtitle language is not changed to the selected one immediately.*
- *When a disc supporting the closed caption is played, the subtitle and the closed caption may overlap each other on the TV screen. In this case, turn the subtitle off.*
- *When the desired language is not selected even after pressing the button several times, it means that the language is not available on the disc.*
- *When the power is turned on or the disc is removed, subtitles appear in the language selected at the initial settings. If this language is not recorded on the disc, the disc's priority language appears.*

## VIEWING FROM ANOTHER ANGLE



Some DVDs may contain scenes, which have been shot simultaneously from a number of different angles. For these discs, the same scene can be viewed from each of these different angles using the ANGLE button. (The recorded angles differ depending on the disc used.)

1 **Press ANGLE during playback. Angle number will display being played back.**
2 **Press ANGLE repeatedly until the desired angle is selected.**




**FOR YOUR REFERENCE**

The ANGLE Icon will light in the M55's VFD at scenes recorded at different angles to indicate that angle switching is possible. The angle will be switched to the selected number when the ANGLE indicator lights.

**NOTE**

*This function only works for discs having scenes recorded at different angles..*

## REPEAT PLAY

Press REPEAT during playback. Each time this button is pressed, the TV screen changes as shown below and the disc will repeat a chapter or title (DVD) or a track (CD).

**DVD**

Repeat of chapter being played
Repeat of title being played
Cancel repeat mode (normal play)

**CD**

Repeat of entire disc contents
Repeat of track being played
Cancel repeat mode (normal play)

**TO PROGRAM REPEAT PLAY (CD)**

If REPEAT is pressed during program play, repeat play is operated as below.

Repeat of the current programmed track
Repeat of all programs
Cancel repeat mode by pressing the REPEAT button several times until REPEAT OFF is displayed

**REPEATING SECTIONS BETWEEN TWO SPECIFIC POINTS (A-B REPEAT)**

1 **Press A-B during play at the point where repeat play is to start (A).**
2 **Press A-B during play at the point where repeat play is to be concluded (B).** Repeat play of the selection between points A and B starts.

**To return to normal play**

Press A-B button once, 'REPEAT OFF' is displayed.

**NOTES**

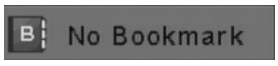
- *Repeat play works only with discs for which the elapsed playing time appears in the DVD display window during playback.*
- *Repeat play may not work correctly with some DVDs.*
- *A-B repeat play works only within a title DVD or a track CD.*
- *Some subtitles recorded around point A or B may fail to appear (DVD).*
- *Repeat and Play may not work with MP-3 encoded CD-R and CD-RW.*

## STORING MARKERS IN MEMORY



Storing a MARKER in the M55's memory is similar to marking your page in a book. It allows you to quickly return to any point on the disc.

**1 Press MARKER during play at the starting point to be viewed (listened to) again**
Indicates 1/9 is stored in the memory. Up to 9 markers can be stored in the memory.



**RECALLING/CLEARING A MARKER**

**2 Press SEARCH during playback**

**3 Use the navigation buttons to select the marker to be recalled/cleared.**

**4 Press ENTER to recall a marker. Or press CLEAR to clear a marker.**
Play resumes from the point corresponding to the selected marker, or the selected marker is cleared.

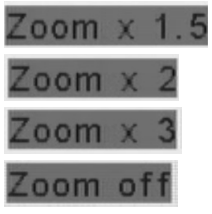
**NOTE**

- *These operations work only with discs for which the elapsed playing time appears in the DVD display window during playback or stop.*
- *Some subtitles recorded around the marker may fail to appear (DVD).*
- *All the markers are cleared when the power is turned off or the disc is removed.*
- *A marker is not stored when the DVD or title menu is displayed on the TV screen.*

## ZOOM FEATURE

The ZOOM feature allows you to zoom-in and enlarges the picture on the screen up to 3 times its normal size.

**1 Press ZOOM during normal playback or pause.**
Each press of the ZOOM button changes the TV screen. The magnification level will be displayed in the upper right corner of the zoom area.




**2 To resume normal playback.**
Press **ZOOM** repeatedly until the normal picture is restored. The OSD will display 'Zoom Off".

**NOTE**

- *Some discs may not respond to the Zoom feature.*
- *Zoom does not work on subtitles or menus included on DVD video discs.*

## RANDOM PLAY (CD)

**1 Press RANDOM during normal playback or stop mode. The M55 automatically starts random playback and the RANDOM indicator will appear in the M55's display.**

**2 To resume normal playback, press RANDOM.**

**NOTE**

- *This function only works with audio CD discs. Random does not work with DVD movies. You can playback titles or tracks in random order. (Random playback)*
- *Random playback may not be possible on certain discs.*
- *If you press the SKIP button during random playback, the DVD player goes to another track randomly and starts playback.*

## PROGRAM PLAY (CD)

The player plays the tracks on the disc in the order you specify.

**1 Press PROGRAM during stop mode**. The program playback screen appears on the TV screen. To exit the screen, press PLAY or PROGRAM.

**2 Press the numeric button(s)to select the desired track number**. Press ENTER to store the track. Repeat step 2 to select another track. Up to 20 tracks can be programmed.

**3 Press PROGRAM or PLAY to exit the screen**. The selected track is stored in the memory and play now begins in the programmed sequence.
If you press PROGRAM to exit the screen, the selected tracks are memorized. If you press PROGRAM after clearing 'Resume Play' the selected programmed tracks are cleared.

**NOTE**

*After playback of all programmed tracks, play is stopped.*
*Program play function is possible only with audio CDs. It does not work with DVD movie discs*

**CLEARING THE PROGRAM**

To clear the programmed tracks one by one
Press navigation buttons to select the unwanted number and then press CLEAR.
Press PROGRAM to exit the screen (The programs are also cleared when the power is turned off or the disc removed.)

ENGLISH

**SACD/CD**

**1** Press MENU during play.
**2** Using the navigation arrows select either SACD or CD
**3** Press the navigation arrows repeatedly until the desired track is selected, then press ENTER.

**VCD**

**1** Press AUDIO during play.
**2** Press AUDIO repeatedly until the desired sound is selected.

**DVD**

**1** Press AUDIO during play. Number of the audio soundtrack language being played back.
**2** Press AUDIO repeatedly until the desired language (or encoding method, channel number) is selected.

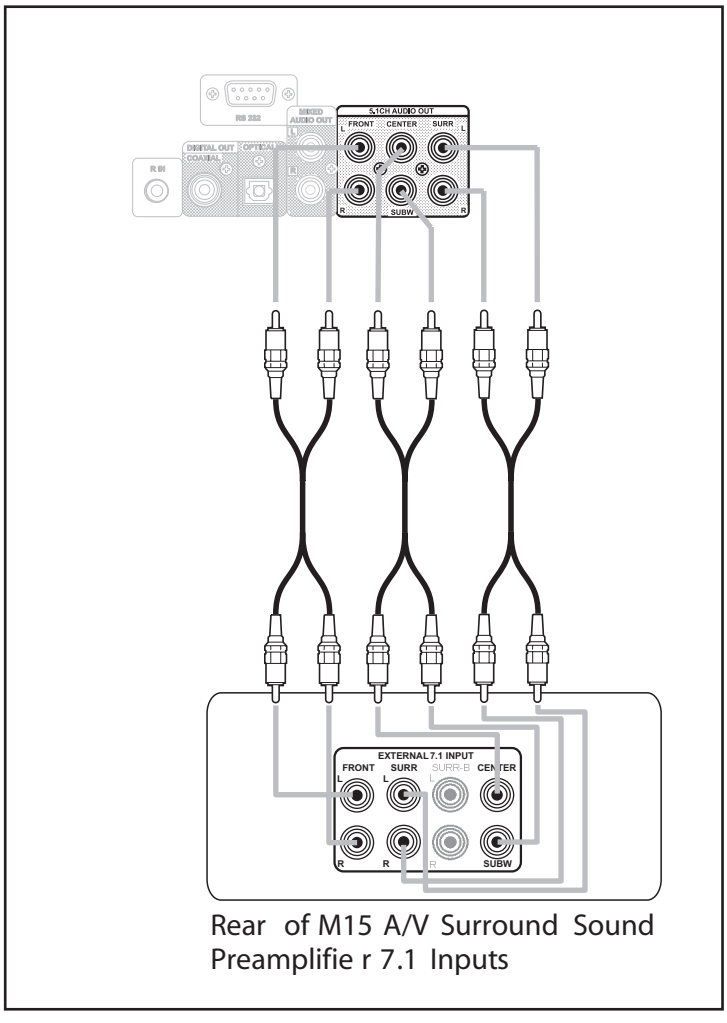
**NOTES**

- *When the desired language is not selected even after pressing the button several times, it means that the language is not available on the disc.*
- *When the power is turned on or the disc is removed, the language heard is the one selected at the initial settings. If this language is not recorded on the disc, only the available language on the disc will be heard.*
- *Some discs may not respond to Audio feature.*

**CONNECTING TO A MULTI-CHANNEL SOUND SYSTEM (SACD/DVD-A)**

Connect the audio outputs to your integrated amplifier as shown below. Then set up the speaker bass response and configuration as per the 5.1 SPEAKER SETUP.

**DOLBY DIGITAL SOUND**




Rear of M15 A/V Surround Sound Preamplifie r 7.1 Inputs

## CONNECTING TO A SURROUND SOUND SYSTEM

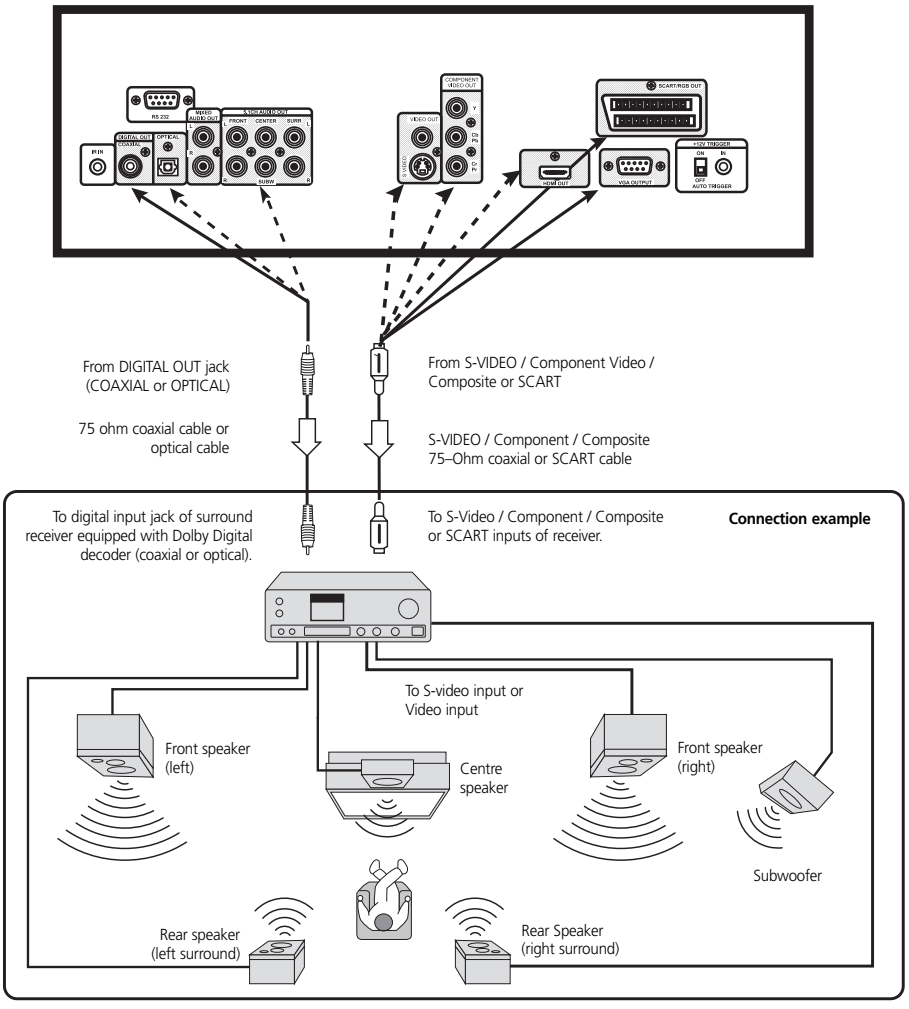
One can enjoy the high quality dynamic sound of Dolby Digital, Dolby Pro Logic and 2 Channel Digital Stereo.

### ABOUT DOLBY DIGITAL SOUND

Dolby Digital is the surround sound technology used in theatres showing the latest movies, and is now available to reproduce this realistic effect in the home. You can enjoy motion picture and live concert DVD video discs by connecting the M55 to a 5.1 channel A/V receiver equipped with a Dolby Digital decoder (AC-3) or Dolby Digital processor.

To enjoy Dolby Digital sound from this DVD player you need the following:

- DVD recorded in Dolby Digital surround format.
- 5.1-channel receiver equipped with a Dolby Digital decoder, or a Dolby Digital processor and power amplifier.
- 5 speakers and 1 sub woofer


From DIGITAL OUT jack (COAXIAL or OPTICAL)
75 ohm coaxial cable or optical cable
From S-VIDEO / Component Video / Composite or SCART
S-VIDEO / Component / Composite 75–Ohm coaxial or SCART cable
To digital input jack of surround receiver equipped with Dolby Digital decoder (coaxial or optical).
To S-Video / Component / Composite or SCART inputs of receiver.
Connection example
To S-video input or Video input
Front speaker (left)
Centre speaker
Front speaker (right)
Subwoofer
Rear speaker (left surround)
Rear Speaker (right surround)

### TO ENJOY DOLBY DIGITAL SOUND

You need to select from the OSD drop down menu of the M55, Audio, 'Dolby Digital/PCM' and 'Sample Freq.', '96 kHz' or '48 kHz'. If uncertain, leave the default 'Stream/PCM' and '48 kHz' from the menu. Do not connect the Digital Audio Output of this DVD player to your receiver unless you are connecting the DIGITAL OUT jack of this DVD player to an AV decoder that has the Dolby Digital or DTS decoding function. High volume sound may damage your hearing as well as the speakers (Refer to Selecting Digital Audio Output. (Refer to Initial Setup Settings, Audio)

### NOTE

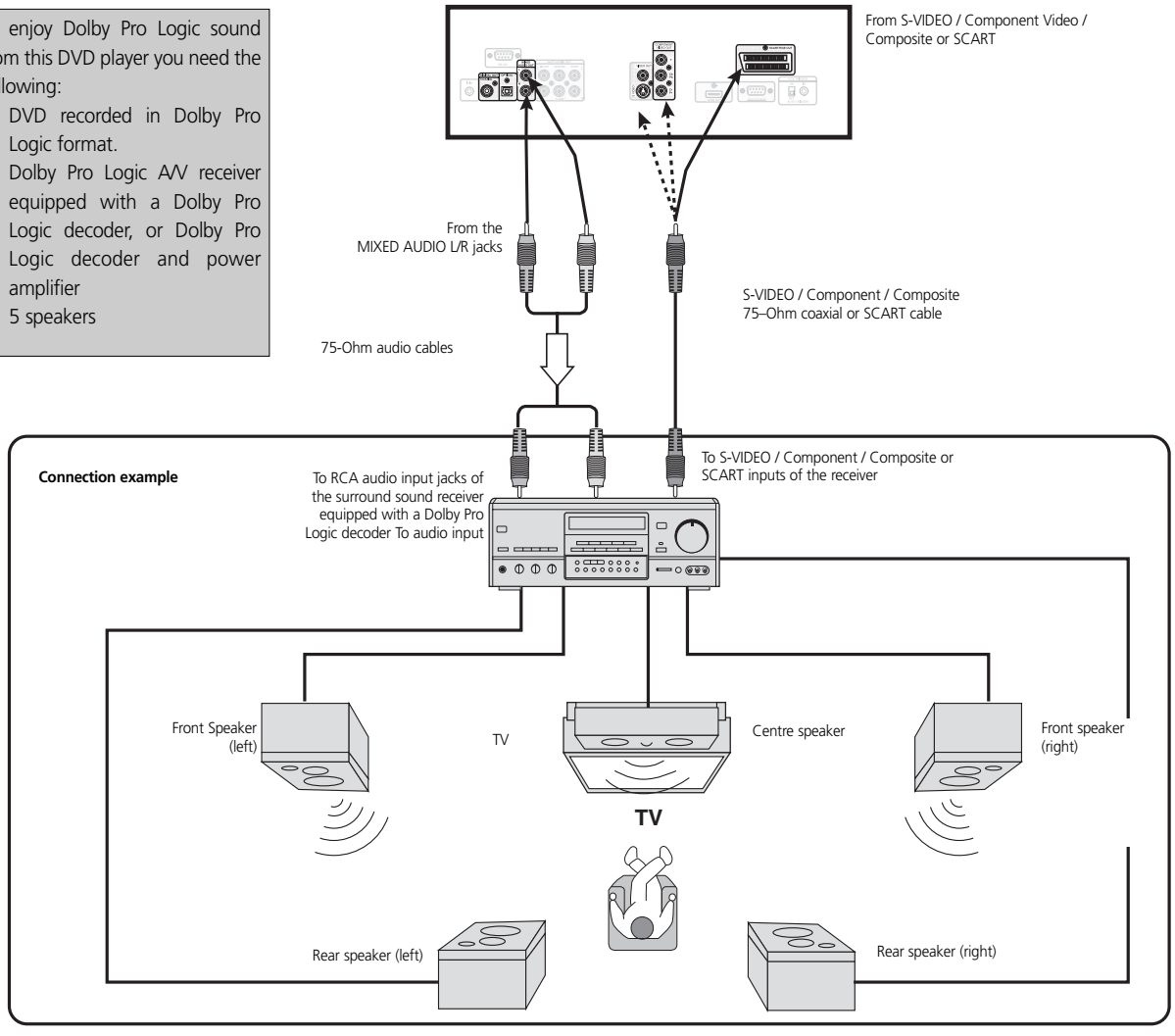
*Refer to the owner's manual of your audio equipment as well. Depending on your Dolby Digital surround sound decoder, the decode rate may be 96 kHz or 48 kHz. When you connect the M55 to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections. The output sound of the M55 has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound. Turn off the receiver before you connect or disconnect the M55's power cord. If you leave the receiver power on, the speakers may be damaged.*

## DOLBY PRO LOGIC SURROUND SOUND

One can enjoy the high quality sound of Dolby Pro Logic Surround Sound if your A/V receiver is equipped with a Dolby Pro Logic Surround Sound processor or decoder.

To enjoy Dolby Pro Logic sound from this DVD player you need the following:

- DVD recorded in Dolby Pro Logic format.
- Dolby Pro Logic A/V receiver equipped with a Dolby Pro Logic decoder, or Dolby Pro Logic decoder and power amplifier
- 5 speakers


From S-VIDEO / Component Video / Composite or SCART
From the MIXED AUDIO L/R jacks
S-VIDEO / Component / Composite 75–Ohm coaxial or SCART cable
75-Ohm audio cables
Connection example
To RCA audio input jacks of the surround sound receiver equipped with a Dolby Pro Logic decoder To audio input
To S-VIDEO / Component / Composite or SCART inputs of the receiver
Front Speaker (left)
TV
Centre speaker
Front speaker (right)
TV
Rear speaker (left)
Rear speaker (right)

### WITH A RECEIVER EQUIPPED WITH A DOLBY PROLOGIC DECODER

Connect the Speakers and receiver equipment the same way as described in Enjoying Dolby Digital Sound. Then connect two channel 75 Ohm audio cables as above. Refer to that A/V receiver's owner's manual and set the receiver so you can enjoy Dolby Pro Logic Surround sound.
You must select a type is a surround-compatible Downmix (Left-total/Right-total, or Lt/Rt) of the multichannel source suitable for Dolby Pro Logic II, Dolby Pro Logic IIx, or other matrix decoding. From the Setup OSD, you need to select, Audio, Downmix, and then 'Lt/Rt' for multi-channel matrix decoding.

### WARNING

*Do not connect the Digital Audio Output of this DVD player to your receiver unless you are connecting the DIGITAL OUT jack of this DVD player to an AV decoder that has the Dolby Digital or DTS decoding function. High volume sound may damage your hearing as well as the speakers (Refer to Selecting Digital Audio Output. (Refer to Initial Setup Settings, Audio)*

### NOTES

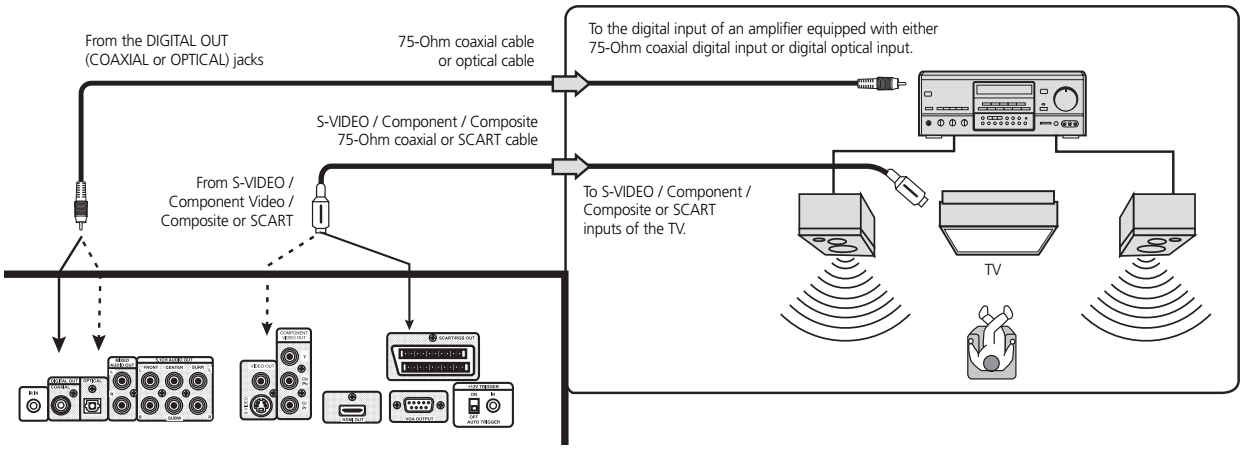
*Refer to the owner's manual of your audio equipment as well. When you connect the M55 to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections. The output sound of the M55 has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound. Turn off the receiver before you connect or disconnect the M55's power cord. If you leave the receiver power on, the speakers may be damaged.*

# CONNECTING TO A SURROUND SOUND SYSTEM



## 2 CHANNEL DIGITAL STEREO SOUND

You can enjoy the dynamic sound of 2 Channel Digital Stereo by connecting this DVD player to a receiver equipped with a digital audio input and speaker system (right and left front speakers).


From the DIGITAL OUT
(COAXIAL or OPTICAL) jacks
75-Ohm coaxial cable
or optical cable
To the digital input of an amplifier equipped with either
75-Ohm coaxial digital input or digital optical input.
S-VIDEO / Component / Composite
75-Ohm coaxial or SCART cable
From S-VIDEO /
Component Video /
Composite or SCART
To S-VIDEO / Component /
Composite or SCART
inputs of the TV.
TV

### TO ENJOY DIGITAL SOUND

You need to select from the OSD drop down menu, Audio, 'Digital Audio Output', and any of the 'PCM' settings, '96 kHz' or '48 kHz'. If uncertain, leave the default 'Stream/PCM' and '48 kHz' from the menu. (Refer to Initial Setup Settings, Audio)

### NOTES

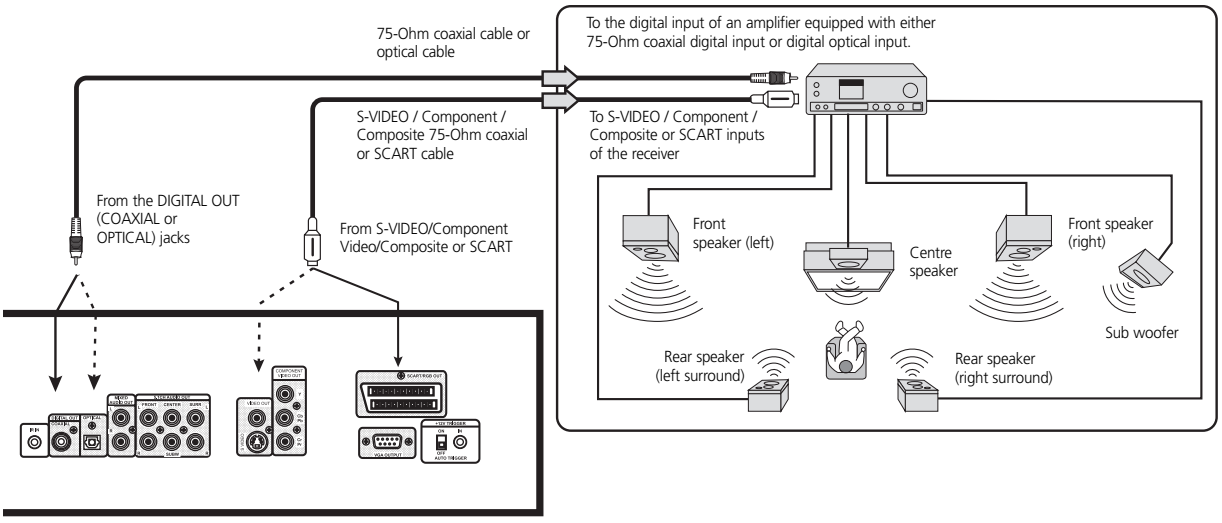
- *Refer to the owner's manual of your receiver as well.*
- *Before you connect the M55 to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.*
- *Depending on your Digital sound decoder, the decode rate may 96 kHz or 48 kHz.*
- *The output sound of the M55 has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.*
- *Turn off the receiver before you connect or disconnect the M55's power cord. If you leave the receiver power on, the speakers may be damaged.*

# CONNECTING TO A SURROUND SOUND SYSTEM



## DTS SOUND

In order to enjoy DTS sound your A/V Receiver or processor must be equipped with a DTS Decoder. The digital output of the M55 must be set to 'Stream/PCM' and the disc must have a DTS soundtrack. There is no analogue output of the M55 for DTS soundtrack.


75-Ohm coaxial cable or optical cable
To the digital input of an amplifier equipped with either 75-Ohm coaxial digital input or digital optical input.
S-VIDEO / Component / Composite 75-Ohm coaxial or SCART cable
To S-VIDEO / Component / Composite or SCART inputs of the receiver
From the DIGITAL OUT (COAXIAL or OPTICAL) jacks
From S-VIDEO/Component Video/Composite or SCART
Front speaker (left)
Centre speaker
Front speaker (right)
Sub woofer
Rear speaker (left surround)
Rear speaker (right surround)

### TO ENJOY DTS SOUND

You need to select from the OSD drop down menu of the M55, Audio, 'Stream/PCM' and 'Sample Freq.', '96 kHz' or '48 kHz'. If uncertain, select 'Stream/PCM' and 'Sample Freq' of 48 kHz' menu.

### WARNING

*Do not connect the Digital Audio Output of this DVD player to your receiver unless you are connecting the DIGITAL OUT jack of this DVD player to an AV decoder that has the Dolby Digital or DTS decoding function. High volume sound may damage your hearing as well as the speakers (Refer to Selecting Digital Audio Output. (Refer to Initial Setup Settings, Audio)*

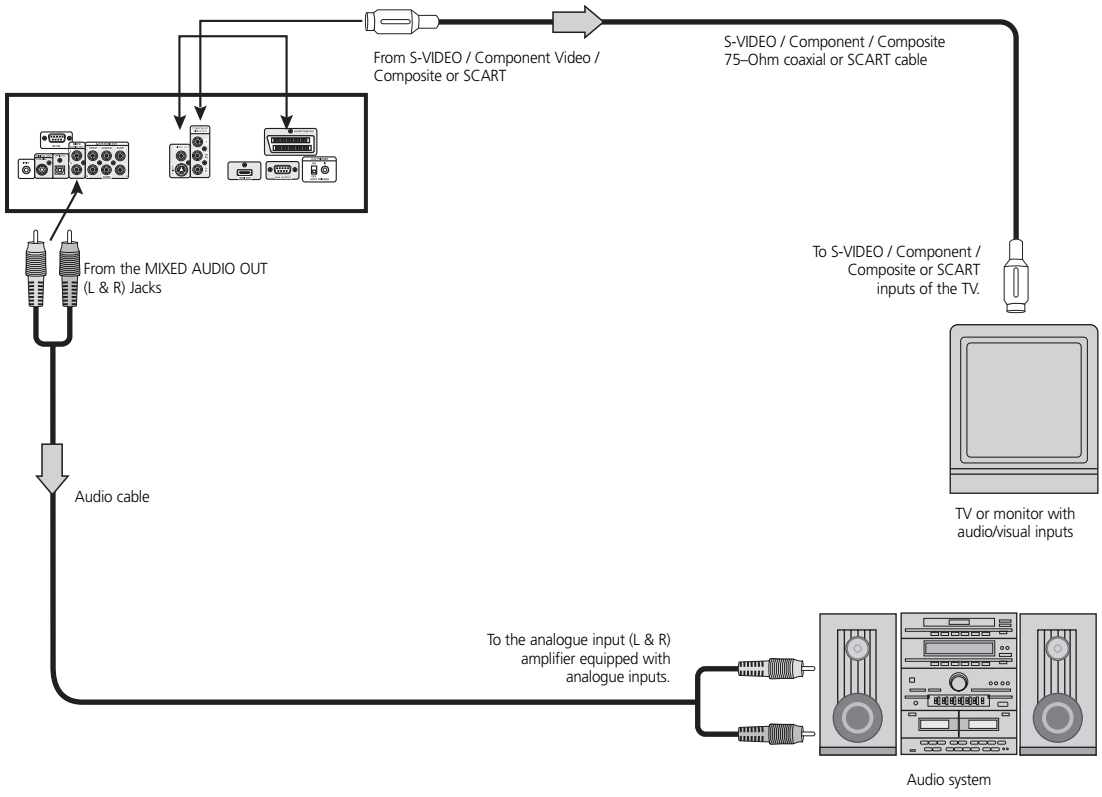
### NOTES

- *Refer to the owner's manual of your receiver as well.*
- *Before you connect the M55 to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.*
- *Depending on your Digital sound decoder, the decode rate may be 96 kHz or 48 kHz.*
- *The output sound of the M55 has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.*
- *Turn off the receiver before you connect or disconnect the M55's power cord. If you leave the receiver power on, the speakers may be damaged.*

# Setup

## CONNECTING TO AN ANALOGUE STEREO SYSTEM

Good quality sound of 2-Channel Stereo system can be achieved by connecting this DVD player to a receiver equipped with a two analogue audio inputs (right and left) and speaker system (right and left front speakers).


From S-VIDEO / Component Video / Composite or SCART
S-VIDEO / Component / Composite 75–Ohm coaxial or SCART cable
From the MIXED AUDIO OUT (L & R) Jacks
To S-VIDEO / Component / Composite or SCART inputs of the TV.
Audio cable
TV or monitor with audio/visual inputs
To the analogue input (L & R) amplifier equipped with analogue inputs.
Audio system

**TO ENJOY GOOD QUALITY SOUND**

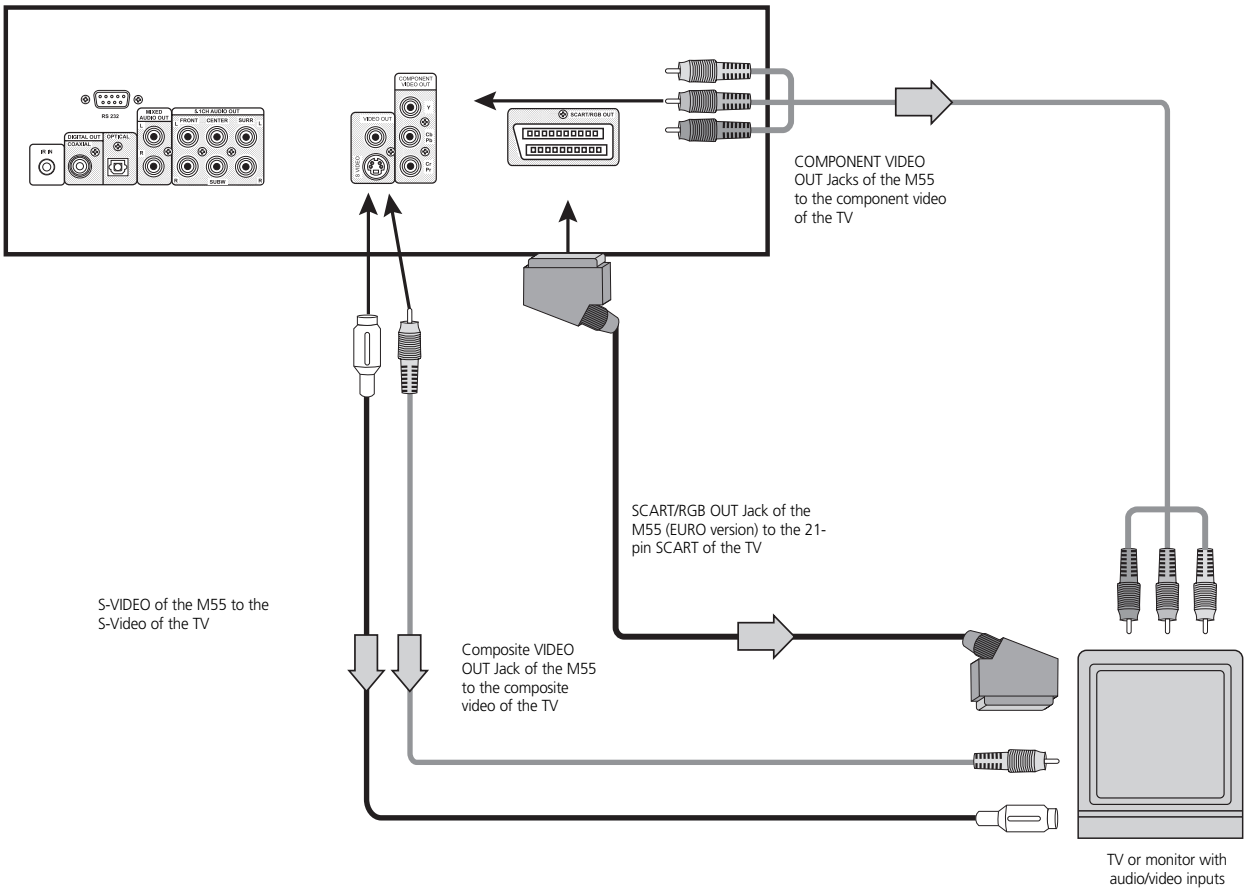
Downmix allows a multichannel program to be reproduced over fewer speaker channels than for which the program is optimally intended. Simply put, down-mixing allows you to enjoy a 5.1 or 7.1 channel media regardless of how many speakers you have.

In Downmix, the analog stereo output is one of two different stereo down-mixes. One type is a surround-compatible Downmix (Left-total/Right-total, or Lt/Rt) of the multichannel source suitable for Dolby Pro Logic II, Dolby Pro Logic IIx, or other matrix decoding. The other type is a simple stereo Downmix suitable for playback on a two-channel stereo system or on headphones.

From the Setup OSD, you need to select, Audio, Downmix, and then 'Stereo' for a two channel stereo system.

**NOTES**

- *Refer to the owner's manual of your receiver as well.*
- *Before you connect the M55 to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.*
- *Depending on your Digital sound decoder, the decode rate may be 96 kHz or 48 kHz.*
- *The output sound of the M55 has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.*
- *Turn off the receiver before you connect or disconnect the M55's power cord. If you leave the receiver power on, the speakers may be damaged.*


COMPONENT VIDEO OUT Jacks of the M55 to the component video of the TV
SCART/RGB OUT Jack of the M55 (EURO version) to the 21-pin SCART of the TV
S-VIDEO of the M55 to the S-Video of the TV
Composite VIDEO OUT Jack of the M55 to the composite video of the TV
TV or monitor with audio/video inputs

**NOTE**

75-Ohm video and audio cables are supplied with the M55. SCART and S-Video cables can be purchased from your local NAD retailer.

**WARNING**

*Do not connect the Digital Audio Output of this DVD player unless you are connecting the DIGITAL OUT jack of this DVD player to a TV that is equipped with an AV decoder that has the Dolby Digital decoding function. High volume sound may damage your hearing as well as the speakers. (Refer to Initial Setup Settings, Audio)F*

**NOTES**

- *Refer to the owner's manual of your receiver as well.*
- *Before you connect the M55 to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.*
- *Depending on your Digital sound decoder, the decode rate may be 96 kHz or 48 kHz.*
- *The output sound of the M55 has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.*
- *Turn off the receiver before you connect or disconnect the M55's power cord. If you leave the receiver power on, the speakers may be damaged.*

# INITIAL SETUP SETTINGS

Language

Video

Audio

Parental Control

System

The player can always be operated under the same conditions (especially with DVD discs), once the initial settings have been completed. The settings will be retained in the memory until they are changed, even if the power is switched off.

**1** Press SETUP in the stop or playback mode. The 'Language', 'Video', 'Audio','Parental Control', and 'System' menus are displayed.
**2** Press the navigation keys to select the desired setting and press ENTER. Some items require additional steps. When the ENTER or SETUP key is pressed the screen returns to the Initial Settings display.
**3** To exit SETUP menu press ENTER, SETUP, PLAY, or OPEN/CLOSE buttons.

## SELECTING LANGUAGES

To select language for DVD audio, DVD menus and OSDs on the TV. Do the following.

**1** From the M55 remote control, press SETUP to select the Settings menu. A drop-down menu for 'OSD', 'Disc Audio', 'Disc Subtitle', 'Disc Menu', and 'Disc Text' will display.
**2** Use the navigation keys to select the desired Language and then press the ENTER button on the M55

remote to store the selection.

**NOTE**

*The* Disc *Audio,* Disc *Subtitle,* Disc *Menu, and* Disc *Text OSD are media specific. Not all media support the various language options. Refer to the specific media documentation for available features. Refer to the section 'REFERENCE', 'Table of Languages and Their Abbreviations' for available languages and their codes.*

## SELECTING VIDEO TV ASPECT

To select the appropriate display mode according to your TV set, one selects the SETUP menu form the remote. Choose 'Video', 'TV Aspect', then the three choices that best fit your TV set.

1 From the drop-down menu of the OSD screen, use the navigation arrows to select 'Video' and press ENTER on the remote.
2 Use the navigation keys to select the desired 'TV Aspect' and press ENTER on the remote

**'Widescreen 16:9'**: Select when a wide-screen TV set is connected. Played in FULL size. (Setting the wide-screen TV to FULL mode is also necessary)
**'Letterbox 4:3'**: The video material not formatted in the Pan & Scan style is played back in the letterbox style (black bands appear at top and bottom of screen).
**'Pan Scan 4:3'**: Select when a conventional TV set is connected. The video material formatted in the Pan & Scan style is played back in that style (the left and right edges are cut off).

16:9 Wide  4:3 Letterbox  4:3 Panscan

**NOTES**

- *Each screen shows an example when the video material for a widescreen is played. (This setting does not affect the video material for conventional size.)*

Select Picture mode depending on the format; video or film. AUTO will switch between the two formats during playback.

**NOTE**

- *For best performance, select AUTO when ever the format is unknown.*

## SELECTING SCAN TYPE

To select the appropriate scan type according to your TV set, one toggles the **RES**. (resolution) button on the M55 remote control. For each signal mode, NTSC or PAL there are four choices available. See page 31 and 37 for scan type availability.

1 Observe the choices on the VFD.
2 Observe the choices on the video outputs as OSD.

There are four analog modes for scanning depending on your selections from the M55 Setup Menu; two are Progressive scan 480p(NTSC) and 576p(PAL), the other two are Interlaced scan 480i(NTSC) and 576i(PAL). Select the scan type that best suites your TV set.

**NOTES**

*When using the Component Video Output; NTSC format 480i and 480p are available, PAL format 576i and 576p are available when HDMI is set to ON in the Setup OSD.*
*When using the HDMI socket, progressive scan is available in NTSC and PAL, but may be limited or prohibited by copy protection on some media.*
*When VGA is set to ON, only 480i(NTSC) and 576i(PAL) will be available on the Component Output*
*Not all monitors will be able to display VGA settings of 1080i. Please refer to your monitor's instruction manual for scan type settings and compatibility.*
*Refer to page 37 for scan types available for each video output*

**HDMI = 480P**
**VGA = OFF**
**COMPONENT = 480I**

**HDMI = 480P**
**VGA = OFF**
**COMPONENT = 480P**

**HDMI = 720P**
**VGA = OFF**
**COMPONENT = 480I**

**HDMI = 1080I**
**VGA = OFF**
**COMPONENT = 480I**

# INITIAL SETUP SETTINGS

## SELECTING SIGNAL MODE

To select the appropriate signal mode according to your TV set, one selects the **SETUP** menu form the remote. Choose the video icon, 'Signal Mode', then one of the four choices that best fit your TV set.

1. From the drop-down menu of the OSD screen, use the navigation arrows to select 'Signal Mode' on the remote.
2. Use the navigation keys to select the 'Signal Mode' and press **ENTER** on the remote
3. Four options will are available; 'Auto', 'NTSC', PAL' and, 'PAL-60'

### OPTIONS

The 'Auto' setting will detect automatically the media being played and display it.
The other three settings 'NTSC' 'PAL', and 'PAL-60' can be selected to force the output of the M55 to the desired format. For example one can load a PAL media and display it in the NTSC format. Similarly one can load an NTSC media and display it in the PAL format.

Depending on the type of TV set you own, select the signal mode you wish to watch the DVD/VCD. The default or automatic setting is "Auto".

## SELECTING GAMMA SETTING

To select the appropriate gamma according to your video monitor, one selects the Setup menu form the remote. Choose "Gamma", then select from the choices that are available.

1. From the drop-down menu of the OSD screen, use the navigation keys to select the video icon, and press the **ENTER** on the remote
2. Using the navigation arrows, select "Gamma" and then press **ENTER**. Choose the colour/intensity linearity for your video monitor and press **ENTER**. The default setting is 1.000

### NOTES

- *Each monitor or display device has a Gamma setting. Please refer to your owner's manual for your TV/monitor for the optimum Gamma setting. If you do not know your setting, use the default of 1.000.*
- *Please refer to the Reference section video adjustment charts on pages 31 and 37 regarding the features available on each video output.*

## SELECTING BLACK LEVEL

Personal taste may require the adjustment of the black level for the DVD disc you are viewing to either "0" or "+7.5" IRE. This adjustment sets the reference level for absolute black as seen on your TV set. To select the appropriate Black Level according to your signal mode, one selects the Setup menu from the remote. Choose 'Video', 'Black Level', then either of the two choices that are available.

1. From the Drop-down menu of the OSD screen, use the navigation keys to select video icon, and press **ENTER** on the Remote
2. Using the navigation arrows, select "Black Level" and press **ENTER**
3. Using the navigation arrows, select either '0' or '+7.5' IRE and press **ENTER**

### NOTES

- *The black level defaults are different for each type of M55; NTSC M55 is +7.5 IRE, PAL M55 is 0 IRE.*
- *Setting the black level incorrectly may result in poor contrast when displaying dark scenes.*
- *Please refer to the Reference section video adjustment charts on pages 31 and 37 regarding the features available on each video output.*

## SELECTING BRIGHTNESS LEVEL

Depending on the settings of your monitor, you may wish to adjust the brightness of the viewed media from your M55 instead of the monitor. The brightness can be fine tuned to your video monitor.

1 From the drop-down menu of the OSD screen, use the navigation keys to select the video icon, and press the **ENTER** on the remote
2 Using the navigation arrows, select "Brightness" and then press **ENTER**. Choose the level of brightness for your video monitor and press **ENTER**. The default setting is "0"

**NOTE**

- *Please refer to the Reference section video adjustment charts on pages 31 and 37 regarding the features available on each video output.*

## SELECTING CONTRAST LEVEL

Depending on the settings of your monitor, you may wish to adjust the contrast of the viewed media from your M55 instead of the monitor. The contrast can be fine tuned to your video monitor.

1 From the drop-down menu of the OSD screen, use the navigation keys to select the video icon, and press the **ENTER** on the remote
2 Using the navigation arrows, select "Contrast" and then press **ENTER**. Choose the level of Contrast for your video monitor and press **ENTER**. The default setting is "0".

**NOTE**

- *Please refer to the Reference section video adjustment charts on pages 31 and 37 regarding the features available on each video output.*

## SELECTING SATURATION LEVEL

Both NTSC, PAL/PAL-60 allow SATURATION (colour level) adjustments to fine tune your monitor's colour balance.

1 From the drop-down menu of the OSD screen, use the navigation keys to select the video icon, and press the **ENTER** on the remote.
2 Using the navigation arrows, select "Saturation" and then press **ENTER**. With this adjustment, you may set different colour levels for your video monitor and press **ENTER**. The default setting is 0.

**NOTE**

- *Please refer to the Reference section video djustment charts on pages 30 and 37 regarding the features available on each video output.*

**SELECTING VIDEO ADJUSTMENT OPTIONS**

| | Black Level | Brightness | Contrast | Saturation | Sharpness | Gamma |
|---|---|---|---|---|---|---|
| **HDMI** | | | | | | |
| **480p/576p** | | ● | ● | ● | | |
| **VGA** | | | | | | |
| **480p/576p** | | ● | ● | ● | | |
| **720p** | | ● | ● | ● | | |
| **1080i** | | ● | ● | ● | | |
| **Component YPbPr** | | | | | | |
| **480p/576p** | | ● | ● | ● | ● | ● |
| **Component YCbCr** | | | | | | |
| **480i/576i** | ● | ● | | ● | | |
| **CVBS** | | | | | | |
| **480i/576i** | ● | ● | | ● | | |
| **S-Video** | | | | | | |
| **480i/576i** | ● | ● | | ● | | |
| **SCART/RGB** | | | | | | |
| **480i/576i** | | ● | | ● | | |

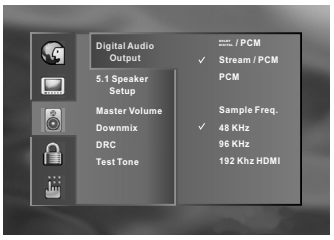
# INITIAL SETUP SETTINGS



## SELECTING DIGITAL AUDIO OUTPUT AND OTHER SETTINGS

### DIGITAL AUDIO OUTPUT

Each DVD disc has a variety of audio output options. Set the player's digital audio output according to the type of audio system you use.




**1** From the drop-down menu of the OSD screen, press the navigation buttons to select the audio icon and then use the navigation buttons on the remote to select the options. Then press ENTER

| Formats | Sample Frequency |
|---|---|
| Dolby Digital/PCM | 48KHz |
| Stream/PCM | 96KHz |
| PCM | 192KHz HDMI |

**NOTES**

*A Sample Frequency of 192KHz is available on the HDMI output only.*

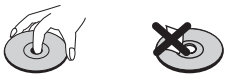
*If an active digital audio output signal is supplied to a receiver or other equipment without a corresponding digital decoding capability, a very loud noise may be produced which could permanently damage the speakers.*

*The DTS DVD disc sound is played back only when the DVD player is connected to a receiver with a DTS decoder.*

*To play 192Khz 24-Bit high resolution stereo DVD-audio, refer to page 37 for available settings.*

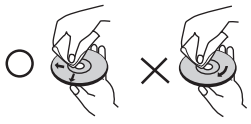
# NOTES ON DISCS

### ON HANDLING DISCS



- Do not touch the playback side of the disc.
- Do not attach paper or tape to discs. To do so may cause the discs to jam inside the machine

### ON CLEANING DISCS



- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the centre outward with a soft cloth. Always keep the disc clean.
- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth wiping from the centre outward, not in a spiral rotation.
- Do not use any type of solvents such as thinner, benzene, commercially available cleaners or anti-static spray for vinyl LPs. They may damage the disc.
- The M55's OSD may display "ERROR: DISC MINOR - CLEAN ME". If it does, clean the disc as mentioned above.

### ON STORING DISCS

- Do not store discs in a place subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

### ABOUT THIS OWNER'S MANUAL

This owner's manual explains the basic instructions of this M55. Some DVD/VCD/CD media have functions that may not be explained in this owner's manual. Therefore, some instructions may differ from the M55 owner's manual, and there may be extra instructions. In this case, follow the instructions displayed on the media package or displayed on the OSD during operation

**NOTE**

- *Refer to the owner's manual of your audio equipment as well. When you connect the M55 to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections. The output sound of the M55 has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound. Turn off the receiver before you connect or disconnect the M55's power cord. If you leave the receiver power on, the speakers may be damaged.*

## PLAYABLE DISCS



The M55 can play back the following discs.

| | Disc Mark | Contents | Disc size | Maximum playback time |
|---|---|---|---|---|
| DVD video<br>DVD audio discs | | Audio+ Video<br>(moving pictures) | 12 cm | Approx. 4 hours (single sided disc) |
| | | | | Approx. 8 hours (double sided disc) |
| | | | 8 cm | Approx. 80 minutes (single sided disc) |
| | | | | Approx. 160 minutes (double sided disc) |
| Audio CDs<br>SACDs | | Audio | 12 cm | 74 minutes |
| | | | 8 cm | 20 minutes |

**In addition this unit can play back a CD-R or CD-RW that contains audio titles or MP3 files**
You cannot playback discs other than those listed above such as; data CD-ROM, CD-Extra, CD-G, and CD-i discs. To do so may render the M55 permanently inoperable.

**REGION MANAGEMENT INFORMATION**
Region Management Information: This DVD Player is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this DVD player, this DVD player cannot play that disc. Please contact your dealer for the region number for your M55.

**NOTES ON UNAUTHORIZED DISCS**
You may not be able to play back some DVD video discs on this player if they were purchased from outside your geographic area or made for business purposes. When you try to play back an unauthorized disc, "**Check Regional Code**" appears on the TV screen.

# TABLE OF LANGUAGES AND THEIR ABBREVIATIONS

Enter the appropriate code number in the Settings' drop-down-menu, 'Other' for "Audio", "Subtitle", "Menu" and/or "Text". Be aware that this is a media specific feature that may not be available for all DVDs and VCDs.

| Code | Language |
|---|---|
| 6565 | Afar |
| 6566 | Abkhazian |
| 6570 | Afrikaans |
| 6577 | Ameharic |
| 6582 | Arabic |
| 6583 | Assamese |
| 6588 | Aymara |
| 6590 | Azerbaijani |
| 6665 | Bashkir |
| 6669 | Byelorussian |
| 6671 | Bulgarian |
| 6672 | Bihari |
| 6678 | Bengali; Bangla |
| 6679 | Tibetan |
| 6682 | Breton |
| 6765 | Catalan |
| 6779 | Corsican |
| 6783 | Czech |
| 6789 | Welsh |
| 6865 | Danish |
| 6869 | German |
| 6890 | Bhutani |
| 6976 | Greek |
| 6978 | English |
| 6979 | Esperanto |
| 6983 | Spanish |
| 6984 | Estonian |
| 6985 | Basque |
| 7065 | Persian |
| 7073 | Finnish |
| 7074 | Fiji |

| Code | Language |
|---|---|
| 7079 | Faroese |
| 7082 | French |
| 7089 | Frisian |
| 7165 | Irish |
| 7168 | Scots Gaelic |
| 7176 | Galician |
| 7178 | Guarani |
| 7185 | Gujarati |
| 7265 | Hausa |
| 7273 | Hindi |
| 7282 | Croatian |
| 7285 | Hungarian |
| 7289 | Armenian |
| 7365 | Interlingua |
| 7378 | Indonesian |
| 7383 | Icelandic |
| 7384 | Italian |
| 7387 | Hebrew |
| 7465 | Japanese |
| 7473 | Yiddish |
| 7487 | Javanese |
| 7565 | Georgian |
| 7575 | Kazakh |
| 7576 | Greenlandic |
| 7577 | Cambodian |
| 7578 | Kannada |
| 7579 | Korean |
| 7583 | Kashmiri |
| 7585 | Kurdish |
| 7589 | Kirghiz |
| 7665 | Latin |

| Code | Language |
|---|---|
| 7678 | Lingala |
| 7679 | Laothian |
| 7684 | Lithuanian |
| 7686 | Latvian, Lettish |
| 7771 | Malagasy |
| 7773 | Maori |
| 7775 | Macedonian |
| 7776 | Malayalam |
| 7778 | Mongolian |
| 7779 | Moldavian |
| 7782 | Marathi |
| 7783 | Malay |
| 7784 | Maltese |
| 7789 | Burmese |
| 7865 | Nauru |
| 7869 | Nepali |
| 7876 | Dutch |
| 7879 | Norwegian |
| 7982 | Oriya |
| 8065 | Panjabi |
| 8076 | Polish |
| 8083 | Pashto, Pushto |
| 8084 | Portuguese |
| 8185 | Quechua |
| 8277 | Rhaeto-Romance |
| 8279 | Rumanian |
| 8285 | Russian |
| 8365 | Sanskrit |
| 8368 | Sindhi |
| 8372 | Serbo-Croatian |
| 8373 | Singhalese |

| Code | Language |
|---|---|
| 8375 | Slovak |
| 8376 | Slovenian |
| 8377 | Samoan |
| 8378 | Shona |
| 8379 | Somali |
| 8381 | Albanian |
| 8382 | Serbian |
| 8385 | Sudanese |
| 8386 | Swedish |
| 8387 | Swahili |
| 8465 | Tamil |
| 8469 | Telugu |
| 8471 | Tajik |
| 8472 | Thai |
| 8473 | Tigrinya |
| 8475 | Turkmen |
| 8476 | Tagalog |
| 8479 | Tonga |
| 8482 | Turkish |
| 8484 | Tatar |
| 8487 | Twi |
| 8575 | Ukrainian |
| 8582 | Urdu |
| 8590 | Uzbek |
| 8673 | Vietnamese |
| 8679 | Volapük |
| 8779 | Wolof |
| 8872 | Xhosa |
| 8979 | Yoruba |
| 9072 | Chinese |
| 9085 | Zulu |

# TROUBLESHOOTING



**SYMPTOMS AND CORRECTION**

Check the following guide for the possible cause of a problem before contacting service.

| SYMPTOM | CAUSE | CORRECTION |
|---|---|---|
| **No power** | • The power cord is disconnected | • Plug the power cord into the wall outlet securely. |
| **The power is on, but the DVD player does not work** | • No disc is inserted. | • Insert a disc (Check that the DVD or VCD indicator in the M55's display is lit). |
| **No picture** | • The TV is not set to receive DVD signal output. | • Select the appropriate video input mode on the TV so that the picture from the DVD player appears on the TV screen. See page 37 for correct scan types. |
| | • The video cable is not connected securely. | • Connect the video cable into the jacks securely. |
| | • The connected TV power is turned off. | • Turn on the TV. |
| **No sound** | • The equipment connected with the audio cable is not set to receive DVD signal output. | • Select the correct input mode of the audio receiver so you can listen to the sound from the DVD player. |
| | • The audio cables are not connected securely. | • Connect the audio cable into the jacks securely. |
| | • The power of the equipment connected with the audio cable is turned off. | • Turn on the equipment connected with the audio cable. |
| | • The Audio output settings are incorrect. | • Select the digital and analog output settings depending on your hardware configuration. See page 31 and page 37 for setup. |
| **The playback picture is poor** | • The disc is dirty. | • Clean the disc. |
| **The DVD player does not start playback** | • No disc is inserted. | • Insert a disc (Check that the DVD or VCD indicator in the M55's display is lit). |
| | • An unplayable disc is inserted. | • Insert a playable disc (Check the disc type, colour system and Regional code). |
| | • The disc is placed upside down. | • Place the disc with the playback side down. |
| | • The disc is not placed within the guide. | • Place the disc on the disc tray correctly inside the guide. |
| | • The disc is dirty. | • Clean the disc. |
| | • A menu is on the TV screen. | • Press the SETUP button to turn off the menu screen. |
| **The remote control does not work properly** | • The remote control is not pointed at the remote sensor of the DVD player. | • Point the remote control at the remote sensor of the DVD player. |
| | • The remote control is too far from the DVD player. | • Operate the remote control within about 23 ft (7 m). |
| | • There is an obstacle in the path of the remote control and the DVD player. | • Remove the obstacle. |
| | • The batteries in the remote control are exhausted. | • Replace the batteries with new ones. |

| | |
|---|---|
| Video DAC | 3 x 12-Bit 256MHz DAC |
| | 6 x 10-Bit 27MHz DAC |
| Video output | HDMI (480p, 576p) |
| | Component Video (Y/CrPr/CbPb) |
| | Composite Video |
| | S-Video (Y/C) |
| | VGA (15pin 480p, 576p, 720p, 1080i) |
| | Euro SCART with RGB & CVBS |
| Digital Zoom | Still & Moving Picture |
| TV Type Setup | PAL/PAL-60/ NTSC |
| Audio DAC | 192 KHz/24 Bit |
| MPEG-2 Multi channel | MPEG-2 Decoder Built in |
| MP3 Decoder | Digital Output, |
| | Stereo on downmix output |
| SACD | 5.1 Channel support on analogue output |
| | 2 Channel downmix analogue |
| DVD-Audio | 5.1 Channel support on analogue output |
| | 2 Channel downmix analogue |
| Dolby Digital | 5.1 Channel support on digital output |
| | 5.1 Channel support on analogue output |
| | 2 Channel downmix analogue |
| HDCD | 5.1 Digital support on digital output |
| DTS | 5.1 Digital support on digital output |
| Down mix | Stereo Left & Right or Lt & Rt Channel |
| | Mono, Mono Left, Mono Right, & Stereo |
| Digital Audio Output | Coaxial Output |
| | Optical Output |
| Others | Dolby/PCM, bit stream/PCM, PCM |
| | |
| Shipping Weight Net | 8.63 kg (19 lb) |
| Shipping Weight Gross | 15.2 kg (33.5 lb) |
| Unit Dimensions (W x H x D)* | Net 435 mm x 100 mm x 300 mm |
| | Gross 435 mm x 114 mm x 305 mm |

*Gross dimensions include feet, disc tray, and rear connections

Specifications are subject to change without notice. For updated documentation and features please log onto **www.nadelectronics.com** for the latest information about your M55.

# COPYRIGHT INFORMATION



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### HI-DEFINITION MULTIMEDIA INTERFACE

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.

**VIDEO OUTPUT SCAN TYPES (EUROPEAN)**

| | 480I/576I | 480P/576P | 720P | 1080I |
|---|---|---|---|---|
| HDMI | | ■ | | |
| VGA | | ■ | ■ | ■ |
| SCART/RGB | ■ | | | |
| Component YPbPr | | ■ | | |
| Component YCbCr | ■ | | | |
| CVBS | ■ | | | |
| S-Video | ■ | | | |

**VIDEO OUTPUT SCAN TYPES (NORTH AMERICAN)**

| | 480I/576I | 480P/576P | 720P | 1080I |
|---|---|---|---|---|
| HDMI | | ■ | | |
| VGA | | ■ | ■ | ■ |
| Component YPbPr | | ■ | | |
| Component YCbCr | ■ | | | |
| CVBS | ■ | | | |
| S-Video | ■ | | | |

**HIGH RESOLUTION DVD-AUDIO STEREO 192KHZ 24-BIT DISCS**

When playing 192KHz 24-bit High resolution DVD-audio stereo discs through the **MIXED AUDIO OUT**, it is necessary to select the option 192 kHz HDMI in the Digital Audio Output OSD menu.

***Please note:*** *Do not forget to revert this setting to 48kHz or 96kHz for normal playback of other types of media.*

**DIGITAL OUT (COAXIAL AND OPTICAL) VERSUS MEDIA FORMAT**

| | DVD-Audio (96 kHz/24-bit) | DVD-LPCM (48/96 kHz) | Dolby Digital | DTS | CD |
|---|---|---|---|---|---|
| 48 kHz | ■ | ■ | ■ | ■ | ■ |
| 96 kHz | ■ | ■ | ■ | ■ | ■ |
| 192 kHz | | ■ | ■ | ■ | ■ |

**www.NADelectronics.com**

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